



Global Warming: A World Leadership Opportunity for California

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Climate Change

“I say the debate is over. We know the science. We see the threat. And we know the time for action is now.”

-- Governor Schwarzenegger
June 1, 2005
World Environment Day



California Matters

World's Largest GHG Emitters

	2000 Emissions (Mt CO2)	Per Capita Emissions
1. USA.....	5,661.....	19
2. China.....	2,795.....	02
3. Russia.....	1,437.....	10
4. Japan.....	1,186.....	09
5. India.....	1,073.....	01
6. Germany.....	787.....	10
7. UK.....	569.....	09
8. Canada.....	437.....	13
9. California.....	430.....	12
10. Italy.....	429.....	07
11. South Korea.....	428.....	09
12. Mexico.....	425.....	04



Sources: Oak Ridge National Lab & The Tellus Institute

California Will:

❑ Lead the Nation

- Vehicle Emissions and Energy Efficiency Standards
- Renewable Portfolio Standard
- California Climate Action Registry

❑ Grow the ECONOMY While Cutting Carbon

- \$5 Billion Consumer Savings Annually by 2020
(CA Vehicle regs)

❑ Encourage Investment in GHG Technology

- World Market Potential, \$180 Billion Annually
- Add 53,000 More Jobs by 2020 (CA Vehicle regs)

CA Companies Taking Action

- ❑ Silicon Valley Companies -- Pledged to Reduce Emissions in Santa Clara County to 20% Below 1990 levels by 2010.

Hewlett-Packard

Oracle

Calpine

Lockheed

ALZA

Life Scan

PG&E

Executive Order Established Statewide GHG Targets

By 2010, Reduce to 2000 Emission Levels*

By 2020, Reduce to 1990 Emission Levels**

By 2050, Reduce to 80% Below 1990 Levels

* Equals 59 Million Tons Emission Reductions, 11% Below BAU

** Equals 145 Million Tons Emission Reductions, 25% Below BAU



Other Directives in the EO

- ❑ CalEPA to Lead a Coordinated Effort
- ❑ Scenario Analysis to Evaluate Impacts on:
 - Public Health
 - Water Quality and Supply
 - Agriculture
 - Forests
 - Coastline
 - Will Include Adaptation Planning
- ❑ Builds upon CEC Climate Science Work and Existing Efforts

Climate Action Team

- ❑ CalEPA Secretary Chairs the Team
- ❑ ARB, BT&H, CDFA, CIWMB, CEC, PUC and Resources are Represented
- ❑ The CAT will:
 - Evaluate Strategies to Meet Targets
 - Report on Scenario Analysis
 - Include Cap and Trade Options in the January Report
 - Report to Governor and Legislature in January and Bi-annually

Cornerstone Strategies Underway

- ❑ GHG Motor Vehicle Regulations (AB 1493, Pavley 2002)
 - Transportation is the largest source of emissions in the state
 - Regs reduce emissions by 30 percent by 2016
 - Legislative Hearing Feb 2005
 - Final Rulemaking filed with Office of Administrative Law August 5

Cornerstone Strategies Underway, cont.

❑ Efficiency Measures

- Despite growing energy demands, CA energy use per capita has remained flat for 30 years

❑ Renewable Portfolio Standard

- Gov Schwarzenegger accelerated RPS to 20% by 2010 and is committed to 33% by 2020

Other Strategies and Implementation Options

- ❑ Other Strategies Underway
- ❑ Second Set Released September 13
- ❑ Strategies Span Industrial Sectors
- ❑ Implementation Options
 - Programmatic
 - Cap and Trade
 - Fee Based

Next Steps

- ❑ Climate Action Team to Finalize List of Recommended Strategies
- ❑ Continue Open Public Process
- ❑ Support of Motor Vehicle Regulations and Other Actions Needed to Reduce Climate Change Emissions